16th International Conference on Fluidized Bed Combustion - Technical Program Schedule

101 Plenary Session

Pavilion E — Monday — 8:30 - 10:00 a.m.

Donald Bonk, U. S. Department of Energy — Donald Geiling, U. S. Department of Energy

FBC01-0208 *Keynote Address*

FBC01-0209 *DOE Perspective*

FBC01-0211 *Awards*

201 CIBO Operations Panel

Pavilion B — Monday — 10:30 a.m. - noon

Gary Merritt, Inter-Power/AhlCon Partners L.P. — ,

FBC01-0212 *Panelists for CIBO Operations Panel*

202 CIBO Owners' Meeting - Closed

Pavilion B — Monday — 1:30 - 5:00 p.m.

Gerald Gatti, Tractebel Power, Inc. — Michael Hawkins, Mt. Poso Cogeneration Co.

FBC01-0226 *CIBO Owners' Meeting Papers*

203 CIBO Owners Meeting Report

Pavilion B — Tuesday — 10:30 a.m. - noon

Gerald Gatti, Tractebel Power, Inc. — Michael Hawkins, Mt. Poso Cogeneration Co.

FBC01-0207 *Atmospheric Fluidized Bed Combustion (AFBC) Benchmarks: A Perspective*

301 Fundamentals: Modeling I

Pavilion C — Monday — 10:30 a.m. - noon

Cor van den Bleek, Delft University of Technology — Nevin Selcuk, Middle East Technical University

FBC01-0036 *Dynamic Modeling of a 250 MWe CFB Boiler*

FBC01-0056 *Dynamic Modeling for Simulation of 410 t/h Pyroflow CFB Boiler*

302 Fundamentals: Modeling II

Pavilion B — Tuesday — 3:30 - 5:00 p.m.

Ben Anthony, CANMET Energy Technology Centre — Changsui Zhao, Southeast University, China

FBC01-0116 *Combustion Modelling in Fluidized Beds: A Look at the Fundamentals*

FBC01-0134 *Modeling of a Bubbling AFBC with Volatiles Release*

FBC01-0151 *Particle-Wall Shear Stress Measurements Within the Standpipe of Circulating Fluid Bed*

303 Fundamentals: Modeling III

Pavilion C | Wednesda | 10:30 a.m. - noon

Piero Salatino, Universita di Napoli | Nevin Selcuk, Middle East Technical University

FBC01-0059 *Dynamic Modeling of a 60 t/h Pressurized Fluidized Bed Combustor*

FBC01-0153 *A State Estimation of the Standpipe of a Circulating Fluidized Bed using an Extended Kalman Filter*

FBC01-0190 *Mathematical Modeling of Tonghae Circulating Fluidized Bed Combustor (200 MWe)*

FBC01-0193 *Development of Second Order Two-Fluid Modelling for Gas-Solid Fluidization*

304 Fundamentals: Combustion I

Pavilion C | Monday | 1:30 - 3:00 p.m.

Fernando Preto, CANMET Energy Technology Centre | Larry Lawson, U. S. Department of Energy

FBC01-0025 *Solids Circulation Rate and Gas Bypassing in Pressurized Spout-Fluid Bed With a Draft Tube*

FBC01-0064 *Investigation of Carbon Loss in CFB Boilers Burning Hard Coals*

FBC01-0088 *Investigation of Unburned Carbon on the Structure of Residual Ash*

FBC01-0122 *Trace Element Behavior When Co-Firing Coal, Straw, and Paper Sludge Under Bubbling Fludized Bed Conditions*

305 Fundamentals: Combustion II

Pavilion C | Monday | 3:30 - 5:00 p.m.

Larry Lawson, U. S. Department of Energy ,

FBC01-0111 *Determination of Biomass Char Combustion Reactivities*

FBC01-0129 *Melting of Ash Components When Co-Firing Coal, Straw, and Paper Sludge Under Bubbling Fluidized Bed Conditions*

FBC01-0196 *About an On-Line Calorific Value Sensor and System Identification Techniques to Improve the Control System of Combustion Processes*

FBC01-0215 *Validation of a Single Particle Model for Char Carbon and Char Nitrogen Oxidation Under Fluidized Bed Combustion Conditions*

306 Fundamentals: Sorbent Performance

Pavilion D | Tuesday | 3:30 - 5:00 p.m.

Andres Cabanillas, CIEMAT | Juan Carlos Abadanes, Instituto de Carboquimica (Spain)

FBC01-0057 *Absorption of HCI and HF by Ca-Based Sorbents at FBC Conditions*

FBC01-0125 *The Sulphation Reaction of Limestone Particles Over a Time Scale of Weeks*

FBC01-0145 *The Long-Term Sulfation Behavior of Limestone and Dolomitic Sorbents in CFBC Boilers*

FBC01-0173 *Prediction of Sorbent Performance Performance in a CFB Boiler Based on Sorbent Petrographic Properties*

308 Fundamentals: Heat Transfer/Hydrodynamics

Pavilion B | Wednesda | 8:30 - 10:00 a.m.

Changsui Zhao, Southeast University, China ,

FBC01-0038 *An Evaluation of In-Bed Heat Transfer Data from Large-Scale Bubbling Atmospheric Fluidized-Bed Combustors*

FBC01-0063 *One Dimensional Numerical Simulation of Coal Gasification in an Industrial Jetting Fluidized Bed Gasifier*

FBC01-0074 *Analysis of the Heat Transfer Mechanism in High Temperature Circulating Fluidized Beds by a Numerical Model*

309 Fundamentals: Fuel Characterization

Pavilion C | Wednesda | 8:30 - 10:00 a.m.

Alan Scaroni, The Pennsylvania State University ,

FBC01-0023 *In-Bed Char Combustion of Australian Black Coals in Pressurized Fluidized Bed Combustion*

FBC01-0078 *Assessment of Ash Inventory and Size Distribution in Fluidized Bed Coal Combustors*

FBC01-0174 *The Effect of Fuel Properties on the Bottom Ash Generation Rate by a Laboratory Fluidized Bed Combustor*

310 Fundamentals: Nitrogen Oxides

Pavilion B | Tuesday | 1:30 - 3:00 p.m.

Sarma Pisupati, The Pennsylvania State University | Larry Shadle, U. S. Department of Energy

FBC01-0068 *NOx and N2O Formation Mechanisms - A Detailed Chemical Kinetic Modeling Study on a Single Fuel Particle in a Stationary Fluidized Bed*

FBC01-0079 *Towards a Quantitative Understanding of NOx and N20 Emission Formation in Full-Scale Circulating Fluidised Bed Combustors*

FBC01-0162 *Study on Control of NOx and N2O in a Coal-Fired Fluidized Bed Test Rig*

401 Gasification I

Pavilion D | Monday | 10:30 a.m. - noon

Archie Robertson, Foster Wheeler | Joe Mei, U. S. Department of Energy

FBC01-0051 *Demonstration of an Intermittent Circulating Fluidized Bed Gasification Process for Industrial Application*

FBC01-0082 *Design of a 12 MW Tri-Cogeneration System of Gas, Heat and Power*

FBC01-0163 *Repowering Lignited Fueled Boiler Plant for High Efficiency*

402 Gasification II

Pavilion D | Monday | 1:30 - 3:00 p.m.

Doug Hajicek, University of North Dakota | Pete Smith, Kellogg Brown & Root

FBC01-0011 *Investigation Into Coal Gasification in an Industrial Jetting Fluidized Bed Gasifier*

FBC01-0065 *Initial Operation of the PSDF Transport Gasifier*

FBC01-0105 *Development of Pressurized Internally Circulating Fluidized-Bed Gasification Technology*

FBC01-0217 *Advanced High-Temperature, High-Pressure Transport Reactor Gasification*

403 Gasification III

Pavilion B | Wednesda | 10:30 a.m. - noon

Archie Robertson, Foster Wheeler | Pete Smith, Kellogg Brown & Root

FBC01-0031 *Repowering Options: Retrofit of Coal-Fired Power Boilers using Fluidized Bed Biomass Gasification*

FBC01-0085 *Research on Flash Pyrolysis of Biomass for Bio-Oil in a Fluidized Bed Reactor*

FBC01-0143 *Pyrolosis of Ployethylene in a Fluidized Bed Reactor*

FBC01-0182 *The Conversion of Fuel Nitrogen in a Biomass-Fueled Pressurized Fluidized Bed Gasification System*

501 Environmental: Emissions I

Pavilion D | Monday | 3:30 - 5:00 p.m.

John Byam, JB International | Phil Jones, PG&E National Energy Group

FBC01-0013 *Control of Acid Gas Emissions from Small to Medium/Medium Sized Sources*

FBC01-0016 *The Effect of Fuel Characterization on Nitrogen Compounds Emissions in a Pilot Fluidized Bed Combustion System*

FBC01-0033 *Experimental and Mechanism Studies on a Pilot-Scale Circulating Fluidized Bed for Flue Gas Desulfurization*

FBC01-0119 *Design Considerations of the 2x150 MW Formosa Heavy Industry Corp. CFB Boiler and NID System*

502 Environmental: Emissions II

Pavilion D | Tuesday | 8:30 - 10:00 a.m.

Ann Kim, U. S. Department of Energy | Andres Cabanillas, CIEMAT

FBC01-0003 *Emissions of N2O and NOx from Char Combustion in a Fluidized Bed*

FBC01-0049 *Effective Nox Reduction With Air Staging, Experiences From a Biomass BFB*

FBC01-0090 *Effect of Season on NOx Emission From Commercial Waste Coal-Fired Circulating Fludized Bed Boilers*

FBC01-0156 *Wastes From the Combustion of Fossil Fuels: Research Prospectives on the Regulatory Determination*

503 Environmental: Ash Management & Use I

Pavilion C | Tuesday | 8:30 - 10:00 a.m.

Jim McClung, Foster Wheeler Corp. ,

FBC01-0058 *Solidification of Fly Ash From Pressurized Fluidized Bed Combustion System by Hydrothermal Technology*

FBC01-0086 *Utilization of FBC Ashes*

FBC01-0157 *Ash Hydration - An Inexpensive Method to Reduce Limestone Consumption*

504 Environmental: Ash Management & Use II

Pavilion C | Tuesday | 1:30 - 3:00 p.m.

Ben Anthony, CANMET Energy Technology Centre ,

FBC01-0146 *Release of Metals from FBC Ash: A Comparison of PC and FBC Ash*

FBC01-0147 *Combining of FBC Fly Ash and Florida Phosphate Slimes for Use as a Soil Amendment*

FBC01-0199 *Coal Composition Effects on Re-Use Options for Circulating Pressurized Fluidized Bed Combustion Ash*

505 Environmental: Air Toxics

Pavilion D | Wednesda | 8:30 - 10:00 a.m.

Ann Kim, U. S. Department of Energy | Sarma Pisupati, The Pennsylvania State University

FBC01-0018 *Mercury Performance in FBC Systems Firing High Chlorine Coals*

FBC01-0019 *PAH Emissions From a Pilot Fluidized Bed Combustion System*

FBC01-0130 *Reburning of Pelletized Fly Ash in Fluidized Bed Incinerator for Dioxin Decomposition and Ash Disposal*

601 AFBC: Design & Cost Studies I

Southern Pacific CD | Tuesday | 8:30 - 10:00 a.m.

John Mustonen, Stone & Webster Engineering Co. | Harvey Goldstein, Parsons Corp.

FBC01-0008 *Utilization of High-Sulphur Coals in CFB*

FBC01-0100 *Experience With Fuels From Biomass to Petroleum Coke, and How Their Properties Affect Fluidized Bed Boiler Plant Design*

FBC01-0171 *Development of Ultra Large CFB Boilers*

FBC01-0195 *USITESC Mine Mount CFB Plant in Santa Catarina State, Brazil*

602 AFBC: Design & Cost Studies II

Southern Pacific CD | Tuesday | 1:30 - 3:00 p.m.

Jim McClung, Foster Wheeler Corp. | Richard Skowyra, ALSTOM

FBC01-0001 *The Design and Experiment of 25 t/h Double Circulating Fluidized Bed Boiler*

FBC01-0006 *Firing Coal Washing Wastes in a FI CIRC Steam Generator Redbank Power Project*

FBC01-0091 *Babcock & Wilcox CFB Boilers - Design & Experience*

FBC01-0104 *Further Studies Into the Designs of Supercritical Pressure Circulating Fluidized Bed Boilers*

604 AFBC: Operations

Pavilion C | Tuesday | 3:30 - 5:00 p.m.

Kay Heinschel, Air Products and Chemicals, Inc. | Phil Jones, PG&E National Energy Group

FBC01-0106 *Experiences on the Use of Circulating Fluidized Bed Technology Considering Modern Emission Regulations in China*

FBC01-0144 *Ammonia Injection System Retrofit at Scrubgrass*

FBC01-0154 *Operating Experience of Foster Wheeler Waste-Coal Fired CFB Boilers*

605 AFBC: Repowering

Southern Pacific CD | Wednesda | 10:30 a.m. - noon

Nelson Rekos, U. S. Department of Energy | Richard Skowyra, ALSTOM

FBC01-0002 *Retrofitting 35 t/h Pulverized Coal Fired Boiler Into Circulating Fluidized Bed Boiler*

FBC01-0076 *Revamping Technology of Aged Boilers at Zhejiang University*

606 AFBC: Technical Advances

Southern Pacific CD | Wednesda | 8:30 - 10:00 a.m.

John Mustonen, Stone & Webster Engineering Co. | Fred Glaser, U. S. Department of Energy

FBC01-0099 *Foster Wheeler Compact CFB Boilers for Utility Scale*

FBC01-0180 *Debottlenecking of Fluidized Bed Furnace for Sewage Sludge Incineration by Oxygen*

FBC01-0213 *Combustion of Victorian and South Australian High Moisture Lignites in a Circulating Fluidised Bed Combustion Pilot Plant*

FBC01-0216 *Modern CFB Concept for Combustion of Recovered Fuels: Design for Improved Availability*

607 AFBC: Case Studies

Southern Pacific AGB | Tuesday | 3:30 - 5:00 p.m.

George Pukanic, U. S. Department of Energy | Harvey Goldstein, Parsons Corp.

FBC01-0060 *The Experimental Investigation on the Coal Ash Formation in CFB Combustion*

FBC01-0123 *Strategic Considerations in Limestone Sourcing and Processing for Use in a CFBB*

FBC01-0169 *Difficult to Burn Fuels in Mid-Size to Large CFB Applications - Latest Experience and Outlook*

FBC01-0177 *Start-Up and Initial Operating Experiences at the Coke Fired Petropower Cogeneration Facility*

608 AFBC: Commercial/Demo Plants

Pavilion D | Tuesday | 10:30 a.m. - noon

Nelson Rekos, U. S. Department of Energy | Richard Skowyra, ALSTOM

FBC01-0007 *An Update of The Kladno Project: First IPP in the Czech Republic*

FBC01-0124 *2 x 230 MW HYBRID-Units at Map Ta Phut, Thailand, With Integration of AFBCs in a Cost-Effective Solution for Combined Steam and Power Production*

FBC01-0135 *Performance Test Data From the First 23 MWt ABFB Boiler in Turkey*

FBC01-0220 *The JEA Northside Repowering CFB Combustion Demonstration Project: An Update*

701 Sustainable Fuels: Refinery Waste Fuels I

Pavilion C | Tuesday | 10:30 a.m. - noon

Michael Rutkowski, Parsons Corp. | Michael DeLallo, Parsons Corp.

FBC01-0009 *Economics and Design Considerations of Firing Petroleum Coke in a CFB*

FBC01-0067 *Environmental, Thermal and Hydrodynamic Influence of the Fuel Composition in the CFB Plant of SOMEDITH (60 MWth)*

FBC01-0093 *The Fluidized Bed Combustion of Heavy Liquid Fuels*

702 Sustainable Fuels: Refinery Waste Fuels II

Southern Pacific AGB | Wednesda | 10:30 a.m. - noon

Michael Rutkowski, Parsons Corp. | Harvey Goldstein, Parsons Corp.

FBC01-0094 *Simultaneous Reduction of Nox Emission and Unburnt Hydrocarbon Emission During Plastic Incineration in Fluidized Bed Combustor*

FBC01-0152 *Combustion of Liquid Refinery Residues in a Circulating Fluidized Bed: Experimental Investigations on the Combustion Characteristics and the Pollutant Formation*

FBC01-0178 *A Study on Bubbling Bed Combustion of Gasoil*

FBC01-0185 *Combustion Characteristics of Refinery Residues in Circulating Fluidized Beds and Their By Products*

703 Sustainable Fuels: Waste Fuel Fundamentals I

Southern Pacific CD | Monday | 10:30 a.m. - noon

Michele Miccio, University of Salerno | Alan Scaroni, The Pennsylvania State University

FBC01-0073 *Searching for Improved Characterisation of Ash Forming Matter in Biomass*

FBC01-0112 *Biomass Mixing and Combustion in FBC*

FBC01-0113 *Predicting the Ash Behavior of Different Fuels in Fluidized Bed Combustion*

FBC01-0205 *Thermal Treatment of Spent Potliners in an Internal Circulating Fluidized Bed Using a Natural Gas Burner*

704 Sustainable Fuels: Waste Fuel Fundamentals II

Southern Pacific CD | Tuesday | 10:30 a.m. - noon

Richard Weinstein, Parsons Corp. | Cor van den Bleek, Delft University of Technology

FBC01-0015 *The Development of A Modular System to Burn Farm Animal Waste to Generate Heat and Power*

FBC01-0131 *Timely Detection of Agglomeration in Biomass Fired Fluidized Beds*

FBC01-0139 *Simulation of Ash Particle Behaviour on Surfaces of Biomass Fired Fluidized Bed Boilers - Combination of Computational Fluid Dynamics and Advanced Ash Analysis*

FBC01-0219 *High Temperature Bubbling Fluidized bed (HT-BFB) Combustion Method for Coal, Refuse and Biomass*

705 Sustainable Fuels: Sewage Sludge & Municipal Waste I

Southern Pacific CD | Monday | 1:30 - 3:00 p.m.

Michael DeLallo, Parsons Corp. ,

FBC01-0136 *Optimization of the Mercury Removal in a Sewage Sluge Incineration*

FBC01-0176 *Co-Combustion of Dried Sewage Sludge and Coal/Wood in CFB -- A Search for Factors Influencing Emissions*

FBC01-0179 *Development of Paper Sludge and Coal Co-Fired Bubbling Fluidized Bed Boiler*

FBC01-0194 *RDF and Sludge Incineration in a 110 MW CFB Boiler: RVL Lenzing*

706 Sustainable Fuels: Sewage Sludge & Municipal Waste II

Southern Pacific CD | Monday | 3:30 - 5:00 p.m.

Michael DeLallo, Parsons Corp. ,

FBC01-0070 *Fluidized Bed Combustion of Sewage Sludge*

FBC01-0108 *Co-Combustion of Dried Sewage Sludge and Coal -- The Fate of Heavy Metals*

FBC01-0170 *The Use of Waste Tyres in a Fluidised Bed Boiler to Generate Process Steam*

709 Sustainable Fuels: Biomass

Pavilion D | Tuesday | 1:30 - 3:00 p.m.

Richard Weinstein, Parsons Corp. | Joe Mei, U. S. Department of Energy

FBC01-0004 *Co-Combustion of Lignite With Waste Wood in a Lab-Scale Fluidized Bed*

FBC01-0044 *Co-Combustion of Coal and Biomass Wastes in Fluidised Bed*

FBC01-0101 *Utility Size Biofuel Fired CFB Boiler for Alholmens Kraft*

FBC01-0120 *FB Combustion of Bark and Sawdust in Silica Sand Bed With Dolomite Addition - A Case Study*

710 Sustainable Fuels: Municipal Waste Fuels

Pavilion D | Wednesda | 10:30 a.m. - noon

George Pukanic, U. S. Department of Energy | Bo Leckner, Chalmers University of Technology

FBC01-0017 *Co-Firing Municipal Solid Waste With High Sulfur Coal in a Pilot FBC System*

FBC01-0020 *Technoeconomic Assessment of Fluidized Bed Combustors as Municipal Solid Waste Incinerators*

FBC01-0030 *Fluidized Bed Technology: Operation and Performance Testing of a Fluidized Bed Power Plant Firing Municipal Refuse Derived Fuel in Ravenna, Italy*

801 PFBC: Design & Cost Studies I

Southern Pacific AGB | Tuesday | 1:30 - 3:00 p.m.

Paul Weitzel, Babcock & Wilcox Company | George von Wedel, Lurgi Energie und Entsorgung GmbH

FBC01-0034 *Dynamic Modeling and Simulation of a Combined Cycle Process - The Transient Behavior and Interactions of Pressurized Circulating Fluidized Bed, Gas Turbine and Water-/Steam-Cycle*

FBC01-0039 *PFBC Steam Cycle Optimization*

FBC01-0048 *The Gas Turbine in a Power Plant With Pressurized Circulating Fluidized-Bed Combustion*

FBC01-0140 *Thermomechanical Modeling of a Refractory Lining*

802 PFBC: Design & Cost Studies II

Southern Pacific CD | Tuesday | 3:30 - 5:00 p.m.

Donald Bonk, U. S. Department of Energy | Robert Gross, U. S. Department of Energy

FBC01-0010 *Second-Generation PFB Plant Performance with W501G Gas Turbine*

FBC01-0053 *APFBC Repowering at Four Corners Station Uses Unique Approach*

FBC01-0054 *APFBC Repowering Makes Sense for Existing Coal-Fired Units*

FBC01-0055 *Would APFBC Repowering of AES Greenidge Unit 4 Make Sense?*

803 PFBC: Hot Gas Cleanup I

Southern Pacific AGB | Monday | 1:30 - 3:00 p.m.

Tom Lippert, Siemens-Westinghouse Power Corp. | George von Wedel, Lurgi Energie und Entsorgung GmbH

FBC01-0072 *CTF Development at Wakamatsu 71 MWe PFBC Combined Cycle Power Plant*

FBC01-0083 *Commercial Readiness of Hot Gas Filtration for Pressurized Combustion*

FBC01-0183 *Operating Experience with a Ceramic Channel-Flow Filter Downstream of a Coal/Biomass Fueled Pressurized Bubbling Fluidized Bed Gasifier*

804 PFBC: Hot Gas Cleanup II

Southern Pacific AGB | Wednesda | 8:30 - 10:00 a.m.

Paul Weitzel, Babcock & Wilcox Company | George von Wedel, Lurgi Energie und Entsorgung GmbH

FBC01-0024 *Granular Filtration in a Fluidized Bed*

FBC01-0041 *Hot Gas Filter Status and Innovations for PFBC*

FBC01-0150 *Opportunities for the Use of Barrier Filters in Industrial Applications*

805 PFBC: Operational Experiences

Southern Pacific AGB | Tuesday | 8:30 - 10:00 a.m.

John Byam, JB International | Kay Heinschel, Air Products and Chemicals, Inc.

FBC01-0089 *Co-generation Plant Cottbus With ABB P200-Pressurized Fluidized Bed Combustion Experience Gained During Start Up and Trial Operations*

FBC01-0107 *Sulfur Dioxide Removal Performance of 250 MW PFBC at Osaki*

FBC01-0201 *Development and Operation Results of Osaki 250 MW Commercial PFBC Plant (Osaki 1-1 PFBC Plant)*

806 PFBC: Components

Southern Pacific AGB — Monday — 3:30 - 5:00 p.m.

Robert Gross, U. S. Department of Energy ,

FBC01-0109 *Segregation in an Inverted Loopseal for Use in Advanced Pressurized Fluid Bed Applications*

FBC01-0137 *PFBC Freeboard Firing With Coal - Development of a CFD Based Design Tool*

FBC01-0191 *Material Selection for the Super-Heater and Re-Heater Tubes on PFBC, Based on the Results of Laboratory Test and Ex-Serviced Materials Survey*

807 PFBC: Pilot Plants

Southern Pacific AGB — Tuesday — 10:30 a.m. - noon

Shelton Ehrlich, Ehrlich Associates — Doug Hajicek, University of North Dakota

FBC01-0037 *Commissioning of the Circulating PFBC in the Foster Wheeler Advanced PFBC Train at the PSDF*

FBC01-0043 *Applied Research for a New Generation of Lignite-Fired Combined Cycle Power Plants Using Circulating Pressurized Fluidized Bed Combustion*

FBC01-0077 *Commissioning of the JiaWang PFBC-CC Pilot Power Plant*

808 PFBC: Technical Advances

Southern Pacific AGB — Monday — 10:30 a.m. - noon

Shelton Ehrlich, Ehrlich Associates — Fred Glaser, U. S. Department of Energy

FBC01-0026 *Carbon Attrition from Australian Black Coals in Pressurized Fluidised Bed Combustion (PFBC)*

FBC01-0071 *Development of an Ash Recirculation PFBC Technology*

FBC01-0181 *Effects of Fluidization Mode Transition on Erosion of Immersed Tubes in Pressurized Fluidized Bed*

901 Poster

Pavilion A — Monday & — 6:00 - 8:00 p.m.

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FBC01-0062 *Measurement of Hot Particle Mass Flux in Circulating Fluidized Bed Boilers*

FBC01-0066 *Combustion and Fragmentation Characteristics of Korean Anthracite*

FBC01-0069 *The Effect of Limestone Reactivation on the Attrition Behavior During Fluidized Bed Desulphurization*